

ABSTRACT

Disclosed herein are a method of producing microstructure and a method of producing mold, the methods permitting production of much smaller pores than before in an atmosphere where impurities are negligible and also permitting production of microstructures having a smaller size and a higher crystallinity than before with the help of the pores. The method of producing microstructure comprises a step of making pores (4) in a substrate (1) to become a mold (5) by irradiation with a focused energy beam (3) and a step of growing a microstructure (8) in the thus made pores (4). The method of producing a mold includes a step of making pores (4) by irradiating a substrate (1) to become a mold (5) with a focused energy beam (3).